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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,199	10/28/2003	Andrew Valencia	062891.1179	4522
5073	7590	01/12/2006	EXAMINER NG, CHRISTINE Y	
BAKER BOTTS L.L.P. 2001 ROSS AVENUE SUITE 600 DALLAS, TX 75201-2980			ART UNIT 2663	PAPER NUMBER

DATE MAILED: 01/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/695,199	VALENCIA, ANDREW
	Examiner Christine Ng	Art Unit 2663

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 02 November 2005.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-30 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-6,9-18 and 20-30 is/are rejected.  
 7) Claim(s) 7,8 and 19 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 28 October 2003 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-6, 9-18, 20, 21 and 26-30 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,421,720 to Fitzgerald.

Referring to claims 1, 11, 16 and 26, Fitzgerald discloses a method for processing packets in network (Figure 1, packet network 16), comprising:

Receiving (Figure 2, from voice encoder 22) a packet flow. Refer to Column 2, line 66 to Column 3, line 5.

Determining if the packet flow includes a pause. The packet flow is “paused” when the network experiences congestion. Refer to Column 3, lines 25-34.

Adjusting (Figures 4 and 5) fragmentation of packets in the packet flow according to whether the packet flow includes the pause. If the packet flow experiences no congestion, the packet payload size (Figure 4, packet 40) remains constant (Figure 5, steps 46-52). The more congestion the packet flow experiences, the greater the packet payload size (Figure 4, packets 42 and 44). Refer to Column 4, lines 16-40 and Column 4, line 53 to Column 5, line 12.

Referring to claim 2, Fitzgerald discloses in Figures 4 and 5 that the method will not perform fragmentation of the packet flow in response to the packet flow including the

pause. If the packet flow (Figure 4, packet 44) experiences heavy congestion (the packet flow is paused), the method will not perform fragmentation of the packet flow; the packet payload will contain a maximum payload size of 100ms. Refer to Column 4, lines 9-40 and Column 4, line 53 to Column 5, line 12.

Referring to claims 3, 12, 17 and 27, Fitzgerald discloses performing fragmentation of packets in the packet flow in response to the packet flow not including the pause. If the packet flow (Figure 4, packet 40) experiences no congestion (the packet flow is not paused), the method will perform fragmentation of the packet flow; the packet payload will contain the conventional payload of 20ms. Refer to Column 1, lines 20-31; Column 4, lines 9-40 and Column 4, line 53 to Column 5, line 12.

Referring to claims 4, 13, 18 and 28, Fitzgerald discloses in Figure 4 fragmenting those packets of the packet flow that exceed a predetermined size (20ms). The conventional packet payload size is 20ms. Refer to Column 1, lines 20-31 and Column 4, lines 9-27.

Referring to claims 5, 15 and 30, Fitzgerald discloses in Figure 4 that the predetermined state size (20ms) is associated with a different packet flow. The typical minimum payload size is 10-20ms; however, “smaller or larger audio payloads may be used depending on specific network conditions”. Refer to Column 4, lines 9-15.

Referring to claim 6, Fitzgerald discloses in Figure 1 that the receiver (gateway 18) receives a plurality of packet flows, the detector is operable to determine if each of the packet flows includes a pause, and the processor is operable to adjust fragmentation of each of the plurality of packet flows according to whether any of the

packet flows includes the pause. Gateway 18 receives a plurality of different packets flows from telephone 14. Refer to Column 2, lines 47-59.

Referring to claim 9, Fitzgerald disclose in Figure 1 that a packet of the packet flow indicates whether the packet flow includes the pause. If a packet or a series of packets (according to sequence numbers) are never received, severe congestion may have caused the packets to be discard by the network processing elements. Refer to Column 3, lines 25-34 and Column 3, line 54 to Column 4, line 8.

Referring to claims 10 and 20, Fitzgerald discloses in Figure 1 determining whether the packet flow includes the pause in response to a receipt frequency of packets in the packet flow. End-to-end packet delay 11 can identify congestion in the network since when the network experiences congestion, the packet flow frequency is slower, since packets may be discarded by the network processing elements. Refer to Column 3, lines 25-34.

Referring to claims 14 and 29, Fitzgerald discloses in Figure 4 that the predetermined size (20ms) is associated with a state characteristic of the packet flow. The typical minimum payload size is 10-20ms; however, "smaller or larger audio payloads may be used depending on specific network conditions". Refer to Column 4, lines 9-15.

Referring to claim 21, Fitzgerald discloses a system for processing packets in a network, comprising:

A sender (Figure 2, packetizer 24 in transmitting packet gateway 20) operable place information in packets of a packet flow, the sender operable to provide an

indication as to whether the packet flow includes a pause. The packetizer packetizes encoded data from voice encoder 22, and monitors the packet network 16 for congestion. Refer to Column 3, line 54 to Column 4, line 8 and Column 4, lines 53-65. Refer also to the rejection of claims 1, 11, 16 and 26.

A linking device (Figure 2, packetizer 24 in transmitting packet gateway 20) operable to receive the packet flow from the sender, the linking device operable to adjust fragmentation of packets in the packet flow according to whether the packet flow includes the pause. Refer to Column 4, lines 9-40 and Column 4, line 53 to Column 5, line 12. Refer also to the rejection of claims 1, 11, 16 and 26.

A receiver (Figure 2, transmitter 26 in transmitting packet gateway 20) operable to receive the packet flow from the linking device. Refer also to the rejection of claims 1, 11, 16 and 26.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,421,720 to Fitzgerald in view of U.S. Patent No. 5,426,640 to Hluchyj et al.

Referring to claim 22, Fitzgerald does not disclose that the sender is operable to identify the pause in the information.

Hluchyj et al disclose in Figure 1 that the pause information (congestion information) is sent in the CL field 104 with data 106 in a packet 102. Each node along the path that transmits a packet determines a congestion level along its respective link and updates the two bit CL field. Refer to Column 4, lines 13-59. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include that the sender is operable to identify the pause in the information, the motivation being so that the sender can determine the initial congestion status and adjust its transmission characteristics such as transmission rate or fragmentation size accordingly.

Referring to claim 23, Fitzgerald does not disclose that the sender is operable to classify the pause identified in the information.

Hluchyj et al in Figure 1 that the congestion CL field 104 is a two-bit field used to store and indicate a congestion level. The two bit field of CL takes on values corresponding to normal, mild, moderate and severe levels of congestion. Refer to Column 4, lines 13-59. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include that the sender is operable to classify the pause identified in the information; the motivation being so that the sender can be informed of the severity of network congestion and adjust its transmission characteristics such as transmission rate or fragmentation size accordingly.

Referring to claim 24, Fitzgerald does not disclose that the pause is classified according to whether one or more predefined limits are exceeded.

Hluchyj et al disclose in Figure 2 the predetermined limits required for congestion to move from a normal state to a mild state to a moderate state and to a severe state of congestion. Refer to Column 4, line 60 to Column 5, line 18. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include that the pause is classified according to whether one or more predefined limits are exceeded; the motivation being in order to maintain a distinction between congestion levels so the sender can adjust its transmission characteristics such as transmission rate or fragmentation size accordingly.

Referring to claim 25, Fitzgerald does not disclose that the sender is operable to adjust one or more bits a packet in the packet flow to indicate a presence and a classification of the pause.

Hluchyj et al in Figure 1 that the congestion CL field 104 is a two-bit field used to store and indicate a congestion level. The two bit field of CL takes on values corresponding to normal, mild, moderate and severe levels of congestion. Refer to Column 4, lines 13-59. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include that the sender is operable to adjust one or more bits a packet in the packet flow to indicate a presence and a classification of the pause; the motivation being so that the sender can utilize the bits to determine the level of congestion and adjust its transmission characteristics such as transmission rate or fragmentation size accordingly.

***Allowable Subject Matter***

5. Claims 7, 8 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

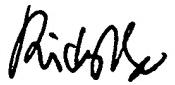
***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine Ng whose telephone number is (571) 272-3124. The examiner can normally be reached on M-F; 8:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571) 272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C. Ng  
November 23, 2005

  
RICKY Q. NGO  
SUPERVISORY PATENT EXAMINER